

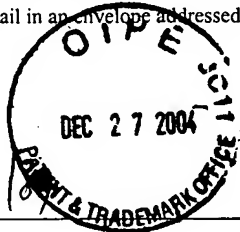
I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail in an envelope addressed to:

PATENT
Attorney Docket No.: 020967-000110US

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

On

12/21/04



TOWNSEND and TOWNSEND and CREW LLP

By:

CE *7/11/05*

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:

Sanguthevar Rajasekaran et al.

Application No.: 10/006,179

Filed: December 4, 2001

For: EFFICIENT SEARCHING
TECHNIQUES

Examiner: Fred I. Ehichioya

Art Unit: 2172

SUPPLEMENTAL INFORMATION
DISCLOSURE STATEMENT UNDER 37
CFR §1.97 and §1.98

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

The references cited on the attached PTO/SB/08A and PTO/SB/08B forms are being called to the attention of the Examiner. Copies of the non US patent references are enclosed with the exception of reference AK. It is respectfully requested that the cited references be expressly considered during the prosecution of this application, and the references be made of record therein and appear among the "references cited" on any patent to issue therefrom.

12/29/2004 HAL111 00000038 201430 10006179

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2172
1fw

Applicant submits that the information (description of index files) disclosed by Reference AK is cumulative to the information disclosed by reference AE. If Examiner would like a copy of reference AK please request same from applicant.

As provided for by 37 CFR 1.97(g) and (h), no representation is being made that a search has been conducted or that this statement encompasses all the possible relevant information, and no inference should be made that the information and references cited are, or are considered to be material to patentability because they are in this statement. No inference should be made that the information and references cited are prior art merely because they are in this statement.

This IDS is being filed before the mailing date of the final Office Action or Notice of Allowance. Please charge the IDS fee of \$180 to Deposit Account No. 20-1430. Please deduct any additional fees from, or credit any overpayment to, the above-noted Deposit Account.

Respectfully submitted,



Sujit B. Kotwal
Reg. No. 43,336

TOWNSEND and TOWNSEND and CREW LLP
Two Embarcadero Center, Eighth Floor
San Francisco, California 94111-3834
Tel: 650-326-2400
Fax: 650-326-2422
SBK:crf



Substitute for form 1449B/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)				Complete if Known	
				Application Number	10/006,179
				Filing Date	December 4, 2001
				First Named Inventor	Rajasekaran, Sanguthevar
				Art Unit	2172
				Examiner Name	Fred I. Ehichioya
Sheet	2	of	2	Attorney Docket Number	020967-000110US

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials *	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
	AC	DIETZFELBINGER et al., "Polynomial hash functions are reliable," <u>Proc. ICALP 1992</u> , pages 235-246.	
	AD	FALOUTSOS, C., "Access methods for text," <u>ACM Computing Surveys</u> , 17(1):49-74 (1985).	
	AE	GONNET et al., <u>Handbook of Algorithms and Data Structures</u> , pages 130-133, Addison-Wesley, Reading, MA (1991).	
	AF	HORWITZ et al., <u>Computer Algorithms</u> , pages 131-137, W. H. Freeman Press (1998).	
	AG	MANBER et al., "GLIMPSE: A tool to search through entire file systems," Technical Report 93-94, Department of Computer Science, The University of Arizona, Tucson, October 1993.	
	AH	KNUTH, D. E., <u>The Art of Computer Programming volume 3: Sorting and Searching</u> , pages 481-485, Addison-Wesley Publishers (1976).	
	AI	Oracle Internet Filesystem (iFS) FAQ, downloaded from http://www.orafaq.com/faqifs.htm on 12/20/04.	
	AJ	PERL et al., "Interpolation Search --A Log LogN Search," <u>Communications of the ACM</u> , 21(7):550-553 (1978).	
	AK	SALTON et al., <u>Introduction to Modern Information Retrieval</u> , McGraw-Hill, New York, 1983. [section related to description of index files].	
	AL	VAN EMDE BOAS et al., "Design and Implementation of an Efficient Priority Queue," <u>Mathematical Systems Theory</u> , 10:99-127 (1977).	
	AM	WU et al., "Agrep -- a fast approximate pattern-matching tool," <u>Proc. Usenix Winter 1992 Technical Conference</u> , pages 153-162 held in San Francisco January 1992.	
	AN	WU et al., "Fast Text Searching Allowing Errors," <u>Communications of the ACM</u> , 35:83-91 (1992).	

Examiner Signature		Date Considered	
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*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Applicant's unique citation designation number (optional). ² Applicant is to place a check mark here if English language Translation is attached.

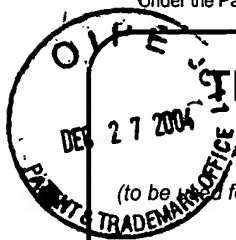
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RPTO/SB/21 (08-00)

Approved for use through 10/31/2002. OMB 0651-0031

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TRANSMITTAL FORM

(to be used for all correspondence after initial filing)

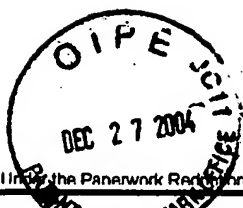
Application Number 10/006,179 Filing Date December 4, 2001 First Named Inventor Sanguthevar Rajasekaran Group Art Unit 2172 Examiner Name Echichioya, Fred I.	Attorney Docket Number 020967-000110US
	Total Number of Pages in This Submission 7

ENCLOSURES (check all that apply)		
<input checked="" type="checkbox"/> Fee Transmittal Form <input type="checkbox"/> Fee Attached <input type="checkbox"/> Amendment / Response <input type="checkbox"/> After Final <input type="checkbox"/> Affidavits/declaration(s) <input type="checkbox"/> Extension of Time Request <input type="checkbox"/> Express Abandonment Request <input checked="" type="checkbox"/> Information Disclosure Statement <input type="checkbox"/> Certified Copy of Priority Document(s) <input type="checkbox"/> Response to Missing Parts/ Incomplete Application <input type="checkbox"/> Response to Missing Parts under 37 CFR 1.52 or 1.53	<input type="checkbox"/> Assignment Papers (for an Application) <input type="checkbox"/> Drawing(s) <input type="checkbox"/> Licensing-related Papers <input type="checkbox"/> Petition Routing Slip (PTO/SB/69) and Accompanying Petition <input type="checkbox"/> Petition to Convert to a Provisional Application <input type="checkbox"/> Power of Attorney, Revocation Change of Correspondence Address <input type="checkbox"/> Terminal Disclaimer <input type="checkbox"/> Request for Refund <input type="checkbox"/> CD, Number of CD(s)	<input type="checkbox"/> After Allowance Communication to Group <input type="checkbox"/> Appeal Communication to Board of Appeals and Interferences <input type="checkbox"/> Appeal Communication to Group (Appeal Notice, Brief, Reply Brief) <input type="checkbox"/> Proprietary Information <input type="checkbox"/> Status Letter <input checked="" type="checkbox"/> Other Enclosure(s) (please identify below): 1) Return receipt postcard 2) Eleven (11) references 3) PTO/SB/08A and PTO/SB/08B forms 4) Fee Transmittal form PTO/SB/17
Remarks The Commissioner is authorized to charge any additional fees to Deposit Account 20-1430. Total number of pages <u>does not</u> include cited references.		

SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT		
Firm and Individual name Townsend and Townsend and Crew LLP Sujit B. Kotwal	Reg No. 43,336	
Signature S. B. Kotwal		
Date December 21, 2004		

CERTIFICATE OF MAILING			
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Typed or printed name Christopher R. Fitting			
Signature		Date December 21, 2004	

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Effective on 12/08/2004.
Fees pursuant to the Consolidated Appropriations Act, 2005 (H.R. 4818).

FEE TRANSMITTAL For FY 2005

☒ Applicant claims small entity status. See 37 CFR 1.27

TOTAL AMOUNT OF PAYMENT (\$) 180.00

Complete If Known

Application Number	10/006,179
Filing Date	December 4, 2001
First Named Inventor	Sanguthevar Rajasekaran
Examiner Name	Echichioya, Fred I.
Art Unit	2172
Attorney Docket No.	20967-000110US

METHOD OF PAYMENT (check all that apply)

☐ Check ☐ Credit Card ☐ Money Order ☐ None ☐ Other (please identify): _____
☒ Deposit Account Deposit Account Number: 20-1430 Deposit Account Name: Townsend and Townsend and Crew

For the above-identified deposit account, the Director is hereby authorized to: (check all that apply)

☒ Charge fee(s) indicated below ☐ Charge fee(s) indicated below, except for the filing fee
☒ Charge any additional fee(s) or underpayments of fee(s) under 37 CFR 1.16 and 1.17 ☒ Credit any overpayments

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FEE CALCULATION

1. BASIC FILING, SEARCH, AND EXAMINATION FEES

Application Type	FILING FEES		SEARCH FEES		EXAMINATION FEES		Fees Paid (\$)
	Fee (\$)	Small Entity Fee (\$)	Fee (\$)	Small Entity Fee (\$)	Fee (\$)	Small Entity Fee (\$)	
Utility	300	150	500	250	200	100	
Design	200	100	100	50	130	65	
Plant	200	100	300	150	160	80	
Reissue	300	150	500	250	600	300	
Provisional	200	100	0	0	0	0	

2. EXCESS CLAIM FEES

Fee Description	Fee (\$)	Small Entity Fee (\$)
Each claim over 20 (including Reissues)	50	25
Each independent claim over 3 (including Reissues)	200	100
Multiple dependent claims	360	180

Total Claims **Extra Claims** **Fee (\$)** **Fee Paid (\$)**
- 20 or HP = _____ x _____ = _____
HP = highest number of total claims paid for, if greater than 20.
Indep. Claims **Extra Claims** **Fee (\$)** **Fee Paid (\$)**
- 3 or HP = _____ x _____ = _____
HP = highest number of independent claims paid for, if greater than 3.

Multiple Dependent Claims
Fee (\$) **Fee Paid (\$)**

3. APPLICATION SIZE FEE

If the specification and drawings exceed 100 sheets of paper (excluding electronically filed sequence or computer listings under 37 CFR 1.52(e)), the application size fee due is \$250 (\$125 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s).

Total Sheets **Extra Sheets** **Number of each additional 50 or fraction thereof** **Fee (\$)** **Fee Paid (\$)**
- 100 = _____ / 50 = _____ (round up to a whole number) x _____ = _____

4. OTHER FEE(S)

Non-English Specification, \$130 fee (no small entity discount)

Other (e.g., late filing surcharge): Information Disclosure Statement Fee (\$180)

Fees Paid (\$)

180.00

SUBMITTED BY

Signature	S. B. Kotwal	Registration No. (Attorney/Agent)	43,336	Telephone	650-326-2400
Name (Print/Type)	Sujit B. Kotwal	Date	12-21-2004		

This collection of information is required by 37 CFR 1.136. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 30 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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